BRUHAT BENGALURU MAHANAGARA PALIKE

Byatarayanapura Project Division

Providing landscaping and beautification to Mini Vidhana Soudha in Ward No.01

Estimate Cost:- Rs.100.00 Lakhs

SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
1	BASAVESHWARA (SITTING) bronze sculpture with following specification a) Making of clay modeling as per the approved schematic sketch b) Making of POP negative mould as per the approved clay model c) Making of FRP (Fiber Reinforced Plastic) casting master pattern d) Making of Bronze Metal (88% of copper and 12% of tin) casting by ABC mould by silica sand process with all necessary melting process materials e) Making of hand carving/ Chiseling grinding, brazing, antic bronze oxidizing by acid process including cost of bronze ornamental finishing f) Imported PU Poly utherin lacqor coating g) The height of the Statue would be about 5 feet height with a weight of about 1200.00 kgs (apporx) excluding weight of MS supporting fabrication work for strengthening of statue including cost of all necessary raw materials, labour, artizans and semi artizans works including erection, with all applicable taxes etc., (Including Erection and transportation charges etc.,) complete as per the direction of engineer in charge. (Data Rate Copy)								
	Basic Rate	**40,00,000.00**							
	TOTAL	**4000000.00**	**Each**						
	Statue								
			1			1.00			
						Total **1.00**	**Each**	**4000000.00**	**4000000.00**
2	Earth work in surface excavation by manual means for lowering & levelling the ground by chiselling and wedging in Hard rock for all works other than foundation & depth not exceeding 100 mm as per drawing and technical specifications, including setting out, barricading, caution lights, dressing of excavated surfaces, disposing off the excavated spalls/stuff & stacking the selected spall/ stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. (Volume-1, Pg. No. 5, It. No. 1.3, PWD, SR 2021-22)								
	Basic Rate	136.00							
	AW 10 %	13.60							
	TOTAL	**149.60**	**cum**						
	For Pedestal								
			1	4.00	3.00	0.30	3.60		
						Total **3.60**	**Cum**	**149.60**	**538.56**
3	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In all kinds of soils Depth upto 3 m (Volume-1, Pg. No. 8, It. No. 1.14.1, PWD, SR 2021-22)								
	Basic Rate	73.00							
	AW 10 %	7.30							
	TOTAL	**80.30**							
		For Pedestal							
			1	2.00	2.00	1.50	6.00		
						Total	**6.00**	**Cum**	**80.30**	**481.80**

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SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
4	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) **Using 20 mm nominal size graded crushed coarse aggregates** (Volume I , Item No. 2.1.4 , Page No.15)								
	Basic Rate	**5926.00**							
	AW 10 %	**592.60**							
	TOTAL	**6518.60**							
		For Pedestal	1	2.00	2.00	0.15	0.60		
		side	4	4.00	0.50	0.15	1.20		
						Total	**1.80**	**Cum**	**6518.60**	**11733.48**
5	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. (Volume-2, It. No. 6.4 of PWD SR 2021-22)							not found	
	Basic Rate	2561.00						Rate	
	AW 10 %	256.10							
	TOTAL	**2817.10**							
			1	2.00	2.00	0.40	1.60		
						Total	**1.60**	**Cum**	**2817.10**	**4507.36**
6	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Volume-1, Pg. No. 16 & 17, It. No. 2.4.3 of PWD SR 2021-22)							Pg - 17	
	Basic Rate	6299.00							
	Area Weightage @ 10%	629.90							
	Sub Total	**6928.90**							
	Add 8% for Footing Shuttering	554.31							
	Total	**7483.21**							
			1	2.00	2.00	0.60	2.40		
						Total	**2.40**	**Cum**	**7483.21**	**17959.71**

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SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Volume-1, Pg. No. 16 & 17, It. No. 2.4.3 of PWD SR 2021-22)								
	Basic Rate 6299.00 ✓								
	Area Weightage @ 10% 629.90								
	Sub Total 6928.90								
	Add 20% for Retaining Wall Shuttering 1385.78								
	Total 8314.68								
	Retaining Wall Below GL		2	2.00	0.20	0.45	0.36		
			2	2.00	0.20	0.45	0.36		
	Retaining Wall Above GL		2	2.00	0.20	1.80	1.44		
			2	2.00	0.20	1.80	1.44		
	Top Slab		1	2.00	2.00	0.20	0.80		
						Total	**4.40**	**Cum**	**8314.68**	**36584.59**
8	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) (Volume-2, Pg. No. 84, It. No. 11.32 of PWD SR 2021-22)								
	Basic Rate 106.00 ✓								
	Area Weightage @ 10% 10.60		Issue Rate						
	Total 116.60								
	Footing		2.40			95.00	228.00		
	Retaining Wall		4.40			130.00	572.00		
						Total	**800.00**	**Kgs**	**116.60**	**93280.00**
9	KSRB 2.5 : Earthwork excavation (in soil deposits) and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1 (P.No.7, I.No.2.12 of PW, P&IWTD SR 2018-19) (old SR)								
	Basic Rate 403.00 ✓								
	Area Weightage @ 8% 32.24								
	Total 435.24								
			1.00	2.00	2.00	2.25	9.00		
						Total	**9.00**	**Cum**	**435.24**	**3917.16**

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SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
10	Providing, fixing Ornamental Granite Column of overall height of 2585mm, 430x430sqmm @bottom, octagonal at a height of 1250mm for a height of 390mm, flower design on both faces of the pillar above the octagonal for a height of 430mm and carving design for a height of 350mm and above that 590mmx590mmx160mm pedestal cap as per the approved Design including quarrying cutting to the required size and transporting the same from quarry to work spot including loading and un loading with all lead and lift etc.., complete as per design and drawing. The work shall be carried out as per the directions of the engineers in charges								
	Data Rate 41500.00								
	Total 41500.00								
			4.00			4.00			
					Total	**4.00**	**Each**	**41500.00**	**166000.00**
11	Providing and fixing of Ornamental Granite Pillar of overall height of 1250mm 200x200sqmm, Octagonal to a height of 820mm and carving design at bottom as shown in drawing .and 280mm respectively as per the approved Design and drawing including quarry cutting to the required size and transporting the same from quarry to work spot\ including loading and un loading with all lead and lift etc. complete as per design and drawing. The work shall be carried out as per design and drawing. Firmly fixed to the ground by means of properly designed foundation of size 300mm x 300mm x 300mm in 1:1.5:3 ratio cement concrete The work shall be carried out as per the engineers in charge of the work etc. and completion of the work as per directions of the Engineer-in-charge of the work.								
	Data Rate 15200.00								
	Total 15200.00								
			8.00			8.00			
					Total	**8.00**	**Each**	**15200.00**	**121600.00**
12	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts,								
	Basic Rate 500.00								
	AW 10% 50.00								
	Total Rate 550.00		**Kg**						
	For Ornamental Column			1	9.00		1.20	10.80	
			Consider 15.00kg/sqm				15.00		
								162.00	
								162.00	**550.00**	**89100.00**
13	Providing and fixing 20mm thick gang saw water cut Lakared granite for cladding in CM 1:3 (1 cement : 3 coarse sand) proportion with a coat of rough plastering using CM 1:4 (1 cement : 4 fine sand), cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, mortar, labour for all items of work, usage charges of machinery etc., complete as per specification. (Item 10.19 P.No 72) (Y-2)								
	Basic Rate 3512.00								
	Area Weightage @ 10% 351.20								
	Total 3863.20								
	Pedestal Cladding		1	8.00		2.30	18.40		
			1	4.00		0.80	3.20		

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SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
						12.00			
14	Supplying and fixing M15 grade precast cement concrete Kerb stones for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finsihed in line as per direction of Engineer in charge. (The cost of PCC shall be paid extra) 300 x 300 x 150 mm Kerb Stone (Volume III , Item No. 21-A 6.7 , Page No. 146)				Total	33.60	sqm	3863.20	129803.52
	Basic Rate 325.00								
	Area Weightage @ 10% 32.50								
	Total 357.50								
	Pedestal	4.00	5.00			20.00			
			10.00			10.00			
					Total	30.00	m	357.50	10725.00
15	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (Volume III , Item No : 8.10 , Page No :56)								
	Basic Rate 85.00								
	Area Weightage @ 10% 8.50								
	Total 93.50								
	Pedestal	4.00	5.00		0.40	8.00			
			10.00		0.40	4.00			
					Total	12.00	sqm	93.50	1122.00
	ELECTRICAL LIGHTING FOR MINI VIDHANASOUDHA								
16	High quality long throw multi color wash light, Protection Rating : IP65, Additional wall mount yoke arrangements for fixing the lights. Power consumption : 50W, CCT : RGBW, Beam Angle 25° / 45°, Control : DMX512, Die casted / extruded aluminium body, Optics Designed to minimize hot spots & fringing in color mixing applications. Power Input : DC 24V (without DC Driver) Code: AK Wash 50 RGBW / Equivalent								
	Data Rate 16894.00								
	Total 16894.00								
		12.00				12.00			
					Total	12.00	Each	16894.00	202728.00
17	High quality spot light, Power : 12W, CCT : RGBW, Protection Rating : IP65, additional wall mount yoke arrangements for fixing the lights. Beam Angle 15°/25°, Body : Die casted / extruded aluminium, Optics Designed to minimize hot spots. Power Input : DC 110-230V,50Hz. Code: AK SL 12 RGBW / Equivalent								
	Data Rate 8500.00								
	Total 8500.00								
		3.00				3.00			
					Total	3.00	Each	8500.00	25500.00
18	High quality long throw multi color linear wash light, Protection Rating : IP65, Additional wall mount yoke arrangements for fixing the lights. Power consumption : 80W, CCT : RGBW, Beam Angle 25°, Control : DMX512, Die casted / extruded aluminium body, Power Input : DC 24V (without DC Driver) Code: AK IP LW 80 RGBW / Equivalent								
	Data Rate 24834.00								
	Total 24834.00								
		4.00				4.00			

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S. no.	DESCRIPTION OF WORKS	NOS	DIMENSIONS (METRIC) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
					Total	4.00	Each	24834.00	99336.00
19	High quality Linear Profile light, Protection Rating : IP65 Power supply and loop out for ease of connections, Power : 18W, 175mm CCT : RGBW, Beam Angle 120°, Body : Extruded aluminium, Power Input : DC 24V (without DC Driver) Code: AR IP LW 18 RGB / Equivalent								
	Data Rate 4874.00								
	Total 4874.00								
		41.00				41.00			
					Total	41.00	Each	4874.00	187834.00
20	High quality 360° LED Window Trick Light : Surface Mounted, RGBW, DMX Compatible, Working Voltage DC24V, Power: 3W x 4CH, (Without DC Power Drive) Code: AR TL 360 RGBW / Equivalent								
	Data Rate 22715.00								
	Total 22715.00								
		33.00				33.00			
					Total	33.00	Each	22715.00	749895.00
21	High quality long throw multi color linear wash light, Protection Rating : IP65, Additional wall mount yoke arrangements for fixing the lights, Power consumption : 30W, CCT : RGBW, Beam Angle 28°, Control : DMX512, Die casted / estruded aluminium body, Power Input : DC 24V (without DC Driver) Code: AR IP LW 30 RGBW / Equivalent								
	Data Rate 17632.00								
	Total 17632.00								
		60.00				60.00			
					Total	60.00	Each	17632.00	1057920.00
22	DC power driver for the above Lights, Power : 200W, Input : AC 110-240V AC, 50Hz, Output : DC 12/24V, Protection rating, IP65, Surge protection : MW 4KV, MW 6KV / Equivalent								
	Data Rate 7872.00								
	Total 7872.00								
		45.00				45.00			
					Total	45.00	Each	7872.00	354240.00
23	High quality DMX decoder, Power Input : DC 24V, Protection rating : IP65.								
	Data Rate 4362.00								
	Total 4362.00								
		20.00				20.00			
					Total	20.00	Each	4362.00	87240.00
24	Flexible Multicore Cable 3C X 1.5Sq.mm								
	Data Rate 27.50								
	Total 27.50								
		1.00	500.00			500.00			
					Total	500.00	M	27.50	13750.00

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SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
25	Flexible Multicore Cable 3C X 2.5Sq.mm								
	Data Rate 45.00								
	Total 45.00		1.00	250.00		250.00			
					Total	**250.00**	**M**	**45.00**	**11250.00**
26	5 core DMX armoured cable comprises twisted pairs with shield support for carrying of data. DMX512 cable is used for connecting all light consoles that use DMX 512 standard data transmission. (As per actuals depending upon the site condition)								
	Data Rate 303.00								
	Total 303.00		1.00	600.00		600.00			
					Total	**600.00**	**each**	**303.00**	**181800.00**
27	IP65 "T" power connectors easy and extremely precise locking system. High impact materials - long- lasting and reliable								
	Data Rate 1007.00								
	Total 1007.00		1.00	105.00		105.00			
					Total	**105.00**	**each**	**1007.00**	**105735.00**
28	IP65 "I" power connectors having 3/4 pole cable connector, chuck type strain relief, Current rating 20 A rms continuous, Easy and extremely precise locking system "Quick Lock" High impact materials - long-lasting and reliable								
	Data Rate 1678.00								
	Total 1678.00		1.00	124.00		124.00			
					Total	**124.00**	**each**	**1678.00**	**208072.00**
29	IP65 DMX connectors having 3/5 pole cable connector, Male/Female connector with improved latch, cage type contacts, "solder stop" for easy soldering, and additional ground contact for best contact integrity between chassis and cable connector. More durable housing for maximum reliability.								
	Data Rate 1084.00								
	Total 1084.00		1.00	140.00		140.00			
					Total	**140.00**	**each**	**1084.00**	**151760.00**
30	IP65 "XLR" male connectors having 3/5 pole cable connector, Male/Female connector with improved latch, cage type contacts, "solder stop" for easy soldering, and additional ground contact for best contact integrity between chassis and cable connector. More durable housing for maximum reliability.								
	Data Rate 689.00								
	Total 689.00		1.00	20.00		20.00			
					Total	**20.00**	**each**	**689.00**	**13780.00**

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SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS) L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
31	IP65 "XLR" female connectors having 3/5 pole cable connector, Male/Female connector with improved latch, cage type contacts, "solder stop" for easy soldering, and additional ground contact for best contact integrity between chassis and cable connector. More durable housing for maximum reliability.								
	Data Rate 689.00								
	Total 689.00								
			1.00	8.00					
						8.00			
					Total	**8.00**	**each**	**689.00**	**5512.00**
32	Waterproof power junction box /power cable terminal box, IP65 made up of rugged, non-corrosive, high impact polycarbonate, molded nylon encases connectors that use screw compression to secure the wires, protection against water jets and dust from all directions, includes 5 Way min 10A connector terminal block Max. dimension : 80 * 250 * 85mm								
	Data Rate 1152.00								
	Total 1152.00								
			1.00	12.00					
						12.00			
					Total	**12.00**	**each**	**1152.00**	**13824.00**
33	DMX isolator or splitter provides Isolated optical DMX splitter provides 8 outputs from a 1 input and Input voltage: AC 110 to 220 V, 50 Hz, Product features: Group 1 & group 8 DMX signal change.								
	Data Rate 33576.00								
	Total 33576.00								
			1.00	2.00					
						2.00			
					Total	**2.00**	**each**	**33576.00**	**67152.00**
34	Master Controller consits of 24 Physical Faders to control atleast 96 channels 4 Individual page control switches Master control fader Black out mode Scene saving option upto 96 memories LCD display Smooth movement faders Easy access key pads DmX 512 protocol, 5 Pin XLR Output Optional chase & multifunction keys Sequence mode select. Code: CX – 12 / equivalent								
	Data Rate 193915.00								
	Total 193915.00								
			1.00	1.00					
						1.00			
					Total	**1.00**	**each**	**193915.00**	**193915.00**
35	Custom Computer for show programming with required graphic card, memroy, software								
	Data Rate 126500.00								
	Total 126500.00								
			1.00	1.00					
						1.00			
					Total	**1.00**	**each**	**126500.00**	**126500.00**

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SL.NO	DESCRIPTION OF WORKS	NOS	DIMENSIONS (MTRS)			QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
			L	B	D				
36	Additional accessories, Technicians, Electricians, Labour, for installing the lights as per the final drawing/site condition consisting of clamps, brackets, angles, conduites, joints, hardwares like fasterners, nut & bolts etc.,								
	Data Rate 200000.00								
	Total 200000.00								
			1.00	1.00		1.00			
					Total	1.00	each	200000.00	200000.00
								Total Amount	87,44,296.18
								Add GST Charges -12%	10,49,315.54
								Add DPR and PMC Charges 2%	2,00,000.00
								Add Miscellaneous Charges	6,388.28
								GRAND TOTAL	1,00,00,000.00

Certificate :-
1. The estimate is prepared as per site condition
2. The Estimate is prepared based on PWD SR 2021-22 and Issue Rates.
3. This Estimate is not Splited and Work Spot Comes Under BBMP Limits

Consultant :-
PREETICAD CONSULTING ENGINEERS PVT LTD

Assistant Engineer
Project Division Byatarayanapura

Assistant Executive Engineer
Project Division Byatarayanapura

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